

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims

Claim 1 (Currently Amended): An image data transmitting/receiving system comprising a mobile phone terminal including ~~provided with~~ the following components (A1) through (A5) and a server including ~~provided with~~ the following components (B1) through (B4):

(A1) an information display screen on which information is displayed,

(A2) a resolution related information memory storage means that stores resolution related information pertinent to the resolution of the information display screen,

(A3) a terminal-side symbol image data memory storage means that stores symbol image data which are used in creating display images partly comprising ~~constituting~~ specific graphic symbols and arranged on the information display screen,

(A4) a symbol image data transmission request information transmitter transmitting means that transmits symbol image data transmission requests for the transmission of symbol image data stored in the server and the resolution related information to the server,

(A5) a symbol image data receiver receiving means that receives the symbol image data transmitted from the server,

(B1) a server-side symbol image data memory storage means that stores the symbol image data in correspondence with the resolution of the information display screen of the mobile phone terminal,

(B2) a symbol image data transmission request information receiver receiving means that receives the symbol image data transmission request information and the resolution related information, which are transmitted from the mobile phone terminal,

(B3) a terminal resolution discriminator discrimination means that discriminates the symbol image data transmitted to the mobile phone terminal on the basis of the resolution related information received, and

(B4) a symbol image data transmitter transmitting means that transmits the symbol image data which is discriminated by the terminal resolution discriminator discrimination means in correspondence with the resolution of the information display screen of the mobile phone terminal.

Claim 2 (Currently Amended): An image data transmitting/receiving system according to Claim 1, comprising the mobile phone terminal including ~~provided with~~ the following components (A6) through (A10) and the server including ~~provided with~~ the following components (B5) through (B7):

(A6) a terminal-side image data identification information memory storage means that stores the terminal-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the terminal-side symbol image data storage means,

(A7) an identification information transmission request information transmitter ~~transmitting means~~ that transmits server-side image data identification information transmission requests for the server to transmit server-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the server, before creating images displayed on the information display screen,

(A8) a server-side image data identification information receiver ~~receiving means~~ that receives the server-side image data identification information transmitted from the server,

(A9) a latest symbol image data discriminator ~~discrimination means~~ that discriminates whether the symbol image data stored in the mobile phone terminal are the latest data, on the basis of the server-side image data identification information and the terminal-side image data identification information received,

(A10) the symbol image data transmission request information transmitter ~~transmitting means~~ that transmits the symbol image data transmission request information and the resolution related information to the server, when the symbol image data stored in the mobile phone terminal are determined as not being the latest data,

(B5) a server-side image data identification information memory ~~storage means~~ that stores the server-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the server-side symbol image data memory ~~storage means~~,

(B6) a server-side image data identification information transmission request information receiver ~~receiving means~~ that receives the server-side image data identification information transmission requests transmitted from the mobile phone terminal, and

(B7) a server-side image data identification information transmitter ~~transmitting means~~ that transmits the server-side image data identification information upon receiving the server-side image data identification information transmission request.

Claim 3 (Currently Amended): An image data transmitting/receiving system according to Claim 1, comprising the mobile phone terminal including ~~provided with~~ the following components (A6), (A11), and (A12), and the server including ~~provided with~~ the following components (B5), and (B8) through (B11):

(A6) a terminal-side image data identification information memory ~~storage means~~ that stores terminal-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the terminal-side symbol image data memory ~~storage means~~,

(A11) the symbol image data transmission request information transmitter ~~transmitting means~~ that transmits, before creating images displayed on the information display screen, the symbol image data transmission requests, the resolution related information, and the terminal-side image data identification information to the server,

(A12) a latest data notice information receiver ~~receiving means~~ that receives notice of information on latest data indicating that the symbol image data stored in the terminal-side symbol image data memory ~~storage means~~ are the latest data,

(B5) a server-side image data identification information memory ~~storage means~~ that stores server-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the server-side symbol image data memory ~~storage means~~,

(B8) the symbol image data transmission request information receiver ~~receiving means~~ that receives the symbol image data transmission requests, the resolution related information, and the terminal-side image data identification information, which are transmitted from the mobile phone terminal,

(B9) a latest symbol image data discriminator ~~discrimination means~~ that discriminates whether the symbol image data stored in the mobile phone terminal are the latest data, on the basis of the terminal-side image data identification information and the server-side image data identification information received,

(B10) a latest data notice information transmitter ~~transmitting means~~ that transmits the notice of information on latest data and does not transmit the symbol image data stored in the server to the mobile phone terminal, when it is determined that the symbol image data stored in the mobile phone terminal are the latest data, and

(B11) the terminal resolution discriminator ~~discrimination means~~ that discriminates the transmitted symbol image data on the basis of the resolution related information received, when the symbol image data stored in the mobile phone terminal is determined as not being the latest data.

Claim 4 (Currently Amended): An image data transmitting/receiving system according to Claim 1, comprising the server including ~~provided with~~ the following component (B12) and the mobile phone terminal including ~~provided with~~ the following components (A13) and (A14):

(B12) a map information transmitter ~~transmitting means~~ that transmits to the mobile phone terminal, map information including symbol image specifying information that specifies

the symbol images and location information that specifies locations where the specified symbol images are laid out,

(A13) a map information receiver ~~receiving means~~ that receives the map information transmitted from the server, and

(A14) a map image generator ~~creation means~~ that creates map images as the display images arranged on the information display screen, on the basis of map information and the symbol image data of the symbol images as map symbol images.

Claim 5 (Currently Amended): An image data transmitting/receiving system comprising a mobile phone terminal including ~~provided with~~ the following components (C1) through (C4) and a server including ~~provided with~~ the following components (D1) through (D5):

(C1) an information display screen on which information is displayed,

(C2) a resolution related information memory ~~storage means~~ that stores resolution related information pertinent to the resolution of the information display screen,

(C3) a display image data transmission request information transmitter ~~transmitting means~~ that transmits display image data transmission requests for transmission of the display images arranged on the information display screen and the resolution related information to the server,

(C4) a display image data receiver ~~receiving means~~ that receives display image data transmitted from the server,

(D1) a server-side symbol image data memory ~~storage means~~ that stores symbol image data in correspondence with the resolution of the information display screen of the mobile phone

terminal, which are used to create the display images partly comprising ~~constituting~~ the symbol images comprising ~~constituting~~ specific graphic symbols,

(D2) a display image data transmission request information receiver ~~receiving means~~ that receives the display image data transmission requests and the resolution related information, which are transmitted from the mobile phone terminal,

(D3) a terminal resolution discriminator ~~discrimination means~~ that discriminates the symbol image data in correspondence with the resolution of the information display screen, on the basis of the resolution related information received,

(D4) a display image generator ~~creation means~~ that creates the display images arranged on the information display screen of the mobile phone terminal, using the symbol image data which is discriminated by the terminal resolution discriminator ~~discrimination means~~, in correspondence with the resolution of the information display screen, and

(D5) a display image data transmitter ~~transmitting means~~ that transmits the display image data comprising ~~constituting~~ the data of created display images.

Claim 6 (Currently Amended): A server capable of transmitting to and receiving image data from a mobile phone terminal comprising:

an information display screen on which information is displayed,

a resolution related information memory ~~storage means~~ that stores resolution related information pertinent to the resolution of the information display screen,

a terminal-side symbol image data memory ~~storage means~~ that stores symbol image data, which are used in creating display images partly comprising ~~constituting~~ specific graphic symbols to be arranged on the information display screen, which represent symbol images,

a symbol image data transmission request information transmitter ~~transmitting means~~ that transmits symbol image data transmission requests for the transmission of the symbol image data stored in the server and the resolution related information to the server, and

a symbol image data receiver ~~receiving means~~ that receives the symbol image data transmitted from the server,

wherein the server comprises the following components (B1) through (B4):

(B1) a server-side symbol image data memory ~~storage means~~ that stores the symbol image data in correspondence with the resolution of the information display screen of the mobile phone terminal,

(B2) a symbol image data transmission request information receiver ~~receiving means~~ that receives the symbol image data transmission requests and the resolution related information which are transmitted from the mobile phone terminal,

(B3) a terminal resolution discriminator ~~discrimination means~~ that discriminates the symbol image data transmitted to the mobile phone terminal on the basis of the resolution related information received, and

(B4) a symbol image data transmitter ~~transmitting means~~ that transmits the symbol image data which is discriminated by the terminal resolution discriminator ~~discrimination means~~ in correspondence with the resolution of the information display screen of the mobile phone terminal.

Claim 7 (Currently Amended): A server according to Claim 6, capable of transmitting to and receiving image data from a mobile phone terminal comprising:

a terminal-side image data identification information memory storage means that stores terminal-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the terminal-side symbol image data memory storage means,

an identification information transmission request information transmitter transmitting means that transmits server-side image data identification information transmission requests for the server to transmit server-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the server, before creating images displayed on the information display screen,

a server-side image data identification information receiver receiving means that receives the server-side image data identification information transmitted from the server,

a latest symbol image data discriminator discrimination means that discriminates whether the symbol image data stored in the mobile phone terminal are the latest data, on the basis of the server-side image data identification information and the terminal-side image data identification information received, and

the symbol image data transmission request information transmitter transmitting means that transmits the symbol image data transmission request information and the resolution related information to the server when the symbol image data stored in the mobile phone terminal are determined as not being the latest data,

wherein the server comprises the following components (B5) through (B7):

(B5) a server-side image data identification information memory storage means that stores the server-side image data identification information comprising ~~constituting~~ identification

information of the symbol image data stored in the server-side symbol image data memory storage means,

(B6) a server-side image data identification information transmission request information receiver receiving means that receives the server-side image data identification information transmission requests transmitted from the mobile phone terminal, and

(B7) a server-side image data identification information transmitter transmitting means that transmits the server-side image data identification information, upon receiving the server-side image data identification information transmission requests.

Claim 8 (Currently Amended): A server according to Claim 6, capable of transmitting to and receiving image data from a mobile phone terminal comprising:

a terminal-side image data identification information memory storage means that stores terminal-side image data identification information comprising constituting identification information of the symbol image data stored in the terminal-side symbol image data memory storage means,

the symbol image data transmission request information transmitter transmitting means that transmits the symbol image data transmission requests, the resolution related information, and the terminal-side image data identification information to the server, before creating images displayed on the information display screen, and

a latest data notice information receiver receiving means that receives notice of information on the latest data indicating that the symbol image data stored in the terminal-side symbol image data memory storage means are the latest data,

wherein the server comprises the following components (B5), and (B8) through (B11):

(B5) a server-side image data identification information memory storage means that stores server-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the server-side symbol image data memory storage means,

(B8) the symbol image data transmission request information receiver ~~receiving means~~ that receives the symbol image data transmission requests, the resolution related information, and the terminal-side image data identification information which are transmitted from a mobile phone terminal,

(B9) a latest symbol image data discriminator ~~discrimination means~~ that discriminates whether the symbol image data stored in the mobile phone terminal are the latest data, on the basis of the terminal-side image data identification information and the server-side image data identification information received,

(B10) a latest data notice information transmitter ~~transmitting means~~ that transmits the notice of information on the latest data and does not transmit the symbol image data stored in the server to the mobile phone terminal, when it is determined that the symbol image data stored in the mobile phone terminal are the latest data, and

(B11) the terminal resolution discriminator ~~discrimination means~~ that discriminates the transmitted symbol image data on the basis of the resolution related information received, when it is determined that the symbol image data stored in the mobile phone terminal are not the latest data.

Claim 9 (Currently Amended): A mobile phone terminal capable of transmitting to and receiving image data from a server comprising:

a server-side symbol image data memory storage means that stores symbol image data which are used in creating display images partly comprising ~~constituting~~ specific graphic symbols arranged on the information display screen of the mobile phone terminal in correspondence with the resolution of the information display screen,

a symbol image data transmission request information receiver ~~receiving means~~ that receives symbol image data transmission requests to transmit the symbol image data stored in the server and resolution related information pertinent to the resolution of the information display screen,

a terminal resolution discriminator ~~discrimination means~~ that discriminates the symbol image data transmitted to the mobile phone terminal on the basis of the resolution related information received, and

a symbol image data transmitter ~~transmitting means~~ that transmits the symbol image data which is discriminated by the terminal resolution discriminator ~~discrimination means~~, in correspondence with the resolution of the information display screen of the mobile phone terminal,

wherein the mobile phone terminal comprises the following components (A1) through (A5):

(A1) the information display screen,

(A2) a resolution related information memory storage means that stores the resolution related information,

(A3) a terminal-side symbol image data memory storage means that stores the symbol image data,

(A4) a symbol image data transmission request information transmitter transmitting means that transmits the symbol image data transmission requests and the resolution related information, and

(A5) a symbol image data receiver receiving means that receives the symbol image data transmitted from the server.

Claim 10 (Currently Amended): A mobile phone terminal according to Claim 9, capable of transmitting to and receiving image data from a server comprising:

a server-side image data identification information memory storage means that stores server-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the server-side symbol image data memory storage means,

a server-side image data identification information transmission request information receiver receiving means that receives server-side image data identification information transmission requests transmitted from the mobile phone terminal for transmission of the server-side image data identification information, and

a server-side image data identification information transmitter transmitting means that transmits the server-side image data identification information upon receiving the server-side image data identification information transmission request,

wherein the mobile phone terminal comprises the following components (A6) through (A10):

(A6) a terminal-side image data identification information memory storage means that stores terminal-side image data identification information comprising ~~constituting~~ identification

information of the symbol image data stored in the terminal-side symbol image data memory storage means,

(A7) an identification information transmission request information transmitter ~~transmitting means~~ that transmits the server-side image data identification information transmission requests to the server, before creating images displayed on the information display screen,

(A8) a server-side image data identification information receiver ~~receiving means~~ that receives the server-side image data identification information transmitted from the server,

(A9) a latest symbol image data discriminator ~~discrimination means~~ that discriminates whether the symbol image data stored in the mobile phone terminal are the latest data, on the basis of the server-side image data identification information and the terminal-side image data identification information received, and

(A10) the symbol image data transmission request information transmitter ~~transmitting means~~ that transmits the symbol image data transmission request information and the resolution related information to the server, when the symbol image data stored in the mobile phone terminal are determined as not being the latest data.

Claim 11 (Currently Amended): A mobile phone terminal according to Claim 9, capable of transmitting to and receiving image data from a server comprising:

a server-side image data identification information memory ~~storage means~~ that stores server-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the server-side symbol image data memory storage means,

the symbol image data transmission request information receiver ~~receiving means~~ that receives the symbol image data transmission requests, the resolution related information, and the terminal-side image data identification information comprising ~~constituting~~ identification information of the symbol image data stored in the terminal-side symbol image data memory storage means, which are transmitted from the mobile phone terminal,

a latest symbol image data discriminator ~~discrimination means~~ that discriminates whether the symbol image data stored in the mobile phone terminal are the latest data, on the basis of the terminal-side image data identification information and the server-side image data identification information received,

a latest data notice information transmitter ~~transmitting means~~ that transmits notice of information on the latest data indicating that the symbol image data stored in the terminal-side symbol image data memory storage means are the latest and does not transmit the symbol image data stored in the server to the mobile phone terminal, when the symbol image data stored in the mobile phone terminal are determined as being the latest,[[,]] and

the terminal resolution discriminator ~~discrimination means~~ that discriminates the transmitted symbol image data on the basis of the resolution related information received, when the symbol image data stored in the mobile phone terminal are determined as not being the latest,

wherein the mobile phone terminal comprises the following components (A6), (A11), and (A12):

(A6) the terminal-side image data identification information memory storage means that stores the terminal-side image data identification information,

(A11) the symbol image data transmission request information transmitter ~~transmitting means~~ that transmits the symbol image data transmission requests, the resolution related

information, and the terminal-side image data identification information to the server, before creating images displayed on the information display screen,

(A12) a latest data notice information receiver ~~receiving means~~ that receives notice of information on the latest data indicating that the symbol image data stored in the terminal-side symbol image data memory ~~storage means~~ are the latest data.

Claim 12 (Currently Amended): A server capable of transmitting to and receiving image data from a mobile phone terminal comprising:

an information display screen on which information is displayed,

a resolution related information memory ~~storage means~~ that stores resolution related information pertinent to the resolution of the information display screen,

a display image data transmission request information transmitter ~~transmitting means~~ that transmits display image data transmission requests for transmission of the display images arranged on the information display screen and the resolution related information to the server, and

a display image data receiver ~~receiving means~~ that receives display image data transmitted from the server,

wherein the server comprises the following components (D1) through (D5):

(D1) a server-side symbol image data memory ~~storage means~~ that stores symbol image data which are used to create the display images partly comprising ~~constituting~~ specific graphic symbols, in correspondence with the resolution of the information display screen of the mobile phone terminal,

(D2) a display image data transmission request information receiver ~~receiving means~~ that receives the display image data transmission requests and the resolution related information, which are transmitted from the mobile phone terminal,

(D3) a terminal resolution discriminator ~~discrimination means~~ that discriminates the symbol image data in correspondence with the resolution of the information display screen, on the basis of the resolution related information received,

(D4) a display image generator ~~creation means~~ that creates the display images arranged on the information display screen of the mobile phone terminal, using the symbol image data which is discriminated by the terminal resolution discrimination means, in correspondence with the resolution of the information display screen, and

(D5) a display image data transmitter ~~transmitting means~~ that transmits display image data comprising ~~constituting~~ the data of created display images.

Clam 13 (Currently Amended): A mobile phone terminal capable of transmitting to and receiving image data from a server comprising:

a server-side symbol image data memory ~~storage means~~ that stores symbol image data which are used to create the display images partly comprising ~~constituting~~ specific graphic symbols arranged in correspondence with the resolution of the information display screen of the mobile phone terminal,

a display image data transmission request information receiver ~~receiving means~~ that receives display image data transmission requests for transmission of the display images arranged on the information display screen and resolution related information pertinent to the resolution of the information display screen,

a terminal resolution discriminator ~~discrimination means~~ that discriminates the symbol image data in correspondence with the resolution of the information display screen, on the basis of the resolution related information received,

a display image generator ~~creation means~~ that creates the display images arranged on the information display screen of the mobile phone terminal, using the symbol image data which is discriminated by the terminal resolution discriminator ~~discrimination means~~ in correspondence with the resolution of the information display screen, and

a display image data transmitter ~~transmitting means~~ that transmits display image data constituting the data of created display images,

wherein the mobile phone terminal comprises the following components (C1) through (C4):

(C1) the information display screen on which information is displayed,

(C2) a resolution related information memory ~~storage means~~ that stores the resolution related information pertinent to the resolution of the information display screen,

(C3) a display image data transmission request information transmitter ~~transmitting means~~ that transmits the display image data transmission requests for transmission of the display images arranged on the information display screen and the resolution related information to the server, and

(C4) a display image data receiver ~~receiving means~~ that receives the display image data transmitted from the server.

Claims 14-22 (Canceled).

Claim 23 (Previously Presented): A mobile phone terminal capable of transmitting to and receiving image data from a server comprising:

a server-side symbol image data memory that stores symbol image data which are used in creating display images partly constituting specific graphic symbols arranged on an information display screen of the mobile phone terminal in correspondence with a resolution of the information display screen,

a symbol image data transmission request information receiver that receives symbol image data transmission requests to transmit the symbol image data stored in the server and resolution related information pertinent to the resolution of the information display screen,

a terminal resolution discriminator that discriminates the symbol image data transmitted to the mobile phone terminal on the basis of the resolution related information received, and

a symbol image data transmitter that transmits the symbol image data which is discriminated by the terminal resolution discrimination means, in correspondence with the resolution of the information display screen of the mobile phone terminal,

wherein the mobile phone terminal comprises:

the information display screen,

a resolution related information memory portion that stores the resolution related information,

a terminal-side symbol image data memory portion that stores the symbol image data,

a symbol image data transmission request information transmitter that transmits the symbol image data transmission requests and the resolution related information, and

a symbol image data receiver that receives the symbol image data transmitted from the server.

Claim 24 (Previously Presented): A mobile phone terminal comprising:

- a display screen;
- a memory storing display screen resolution information;
- a transmitter for transmitting to a server a symbol image data request and the display screen resolution information;
- a receiver for receiving symbol image data transmitted from the server in response to the request and the display screen resolution information; and
- a controller for generating map images for display on the information display screen, wherein the map images comprise one or more symbols corresponding to the received symbol image data.

Claim 25 (Previously Presented): The mobile phone terminal according to claim 24, wherein the display screen resolution information comprises one or both of a horizontal dot number and a vertical dot number.

Claim 26 (Previously Presented): The mobile phone terminal according to claim 24, wherein the display screen resolution information comprises a number of pixels.

Claim 27 (Previously Presented): The mobile phone terminal according to claim 24, wherein the display screen resolution information comprises a resolution classification.